

07/803264



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT : Ronald A. Katz )  
SERIAL NO. : NOT ASSIGNED YET ) Examiner: T. Brown  
FILED : ) In Parent  
FOR : TELEPHONIC-INTERFACE ) Art Unit: 261  
STATISTICAL ANALYSIS )  
SYSTEM )  
DOCKET NO. : 4646-101NB )

#3B  
R. Logan  
3-5-92

PRELIMINARY AMENDMENT

December 3, 1991  
201 North Figueroa Street  
Los Angeles, California 90012

fee  
OK

Commissioner of Patents  
and Trademarks  
Washington, D. C. 20231

Sir:

Prior to examination, please amend as follows the  
above-identified patent application which is a continuation of  
Application Serial No. 07/640,337 filed on January 11, 1991:

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited  
with the United States Postal Service on the date shown below  
with sufficient postage as first class mail in an envelope  
addressed to the: Commissioner of Patents and Trademarks,  
Washington, D. C. 20231.

Date: December 3, 1991

Reena Kuyper  
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IN THE SPECIFICATION:

E /

On page 1, at line 1 of the first paragraph, after "This" insert ~~is a continuation~~ of Application Serial No. 07/640,337 filed January 11, 1991 and entitled "Telephonic-Interface Statistical Analysis System" which is a continuation of Application Serial No. 335,923 filed April 10, 1989 and entitled "Telephonic-Interface Statistical Analysis System" which is a continuation of Application Serial No. 194,258 filed May 16, 1988 and entitled "Telephonic-Interface Statistical Analysis System," now U.S. Patent No. <sup>4,845,739</sup>~~484,739~~ issued July 4, 1989, which ~~is~~.

B2

Page 1, line 5, after "Facility" insert ~~is~~, now U.S. Patent No. 4,792,968, issued December 20, 1988, ~~is~~.

Page 1, line 8, after "Facility" and before the period insert --, now abandoned--.

Page 4, line 21, delete "and".

Page 4, line 23, delete the period at the end of the line and substitute therefor --; and--.

B3

Page 4, line 24, insert ~~is~~ FIGURE 9 is a block diagram of the connections between the CPU and remote stations. ~~is~~

B4

Page 21, line 16, delete "(by voice cue) to provide" and substitute therefor ~~is~~ by the voice generator to provide (by voice) ~~is~~.

Page 25, line 28, after "currently" insert --a--.

--100--.

IN THE CLAIMS:

Please cancel Claim 1 and add Claims 29-52  
(numbered consecutively from the original application as filed  
in the parent case U.S. Serial No. 07/640,337).

1 *Sub E of DEI 429* An analysis control system for use with a  
2 communication facility including remote terminal apparatus for  
3 individual callers, wherein said remote terminal apparatus may  
4 comprise a conventional telephone instrument including voice  
5 communication means and digital input means in the form of an  
6 array of alphabetic numeric buttons for providing data, said  
7 analysis control system comprising:

*BS*  
*(cont.)*  
8 interface structure selectively coupled to said  
9 communication facility to interface said terminal apparatus  
10 for voice and digital communication and including means to  
11 provide signals representative of data developed by said  
12 terminal apparatus;

13 voice generator structure selectively coupled  
14 through said interface structure to said terminal apparatus  
15 for providing vocal operating instructions to individual ones  
16 of said callers;

17 record memory means connected to said interface  
18 structure for initiating a file and storing data relating to

19 certain select ones of said individual callers;  
20 designation structure means selectively coupled to  
21 said interface structure and said record memory means for  
22 assigning individual designations to callers and storing said  
23 designations in said record structure; and  
24 analysis structure connected to said record memory  
25 means for processing said data relating to certain select ones  
26 of said individual callers to isolate a subset of said  
27 callers. ✓

B5  
cont'd

1 <sup>2</sup>  
2 ~~30~~. An analysis control system according to  
3 claim <sup>1</sup>~~29~~ wherein said analysis structure isolates a subset  
4 of said callers by inter-related processing with said  
5 data relating to certain select ones of said individual  
6 callers. ✓

7 ~~Sub C2~~ ~~31~~. An analysis control system according to  
8 claim 30 further including a random number generator to  
9 isolate a subset. ✓

1 <sup>4</sup>  
2 ~~32~~. An analysis control system according to  
3 claim <sup>1</sup>~~29~~ further including memory means for storing cue  
4 questions for said callers and random selection means for  
5 addressing said memory means to actuate said voice generator  
structure. ✓

1 <sup>5</sup>  
2 ~~33~~. An analysis control system according to  
3 claim <sup>1</sup>~~29~~ wherein said designation structure means includes  
4 means for storing sequence data indicative of the calling  
sequence of said individual callers. ~~to~~

1 <sup>6</sup>  
2 ~~34~~. An analysis control system according to  
3 Claim <sup>5</sup>~~33~~ wherein said sequence data is indicative of caller  
significance. ~~to~~

1 <sup>7</sup>  
2 ~~35~~. An analysis control system according to  
3 claim <sup>1</sup>~~29~~ further including acknowledgement means for  
confirming caller designations as provided to a caller. ~~to~~

1 <sup>8</sup>  
2 ~~36~~. An analysis control system according to  
3 claim <sup>1</sup>~~29~~ wherein said voice generator structure is driven to  
4 prompt said certain select ones of said callers to provide  
5 telephone number data for storage in said record memory  
means. ~~to~~

1 <sup>9</sup>  
2 ~~37~~. An analysis control system according to  
3 claim <sup>1</sup>~~29~~ wherein said analysis structure includes a random  
number generator. ~~to~~

1 ~~38~~. An analysis control system for use with a  
2 communication facility including remote terminal apparatus for  
3 individual callers, wherein said remote terminal apparatus may

4 comprise a conventional telephone instrument including voice  
5 communication means and digital input means in the form of an  
6 array of alphabetic numeric buttons for providing data, said  
7 analysis control system comprising:

8 interface structure selectively coupled to said  
9 communication facility to interface said terminal apparatus  
10 for voice and digital communication and including means to  
11 provide signals representative of data developed by said  
12 terminal apparatus;

13 voice generator structure selectively coupled  
14 through said interface structure to said terminal apparatus  
15 for providing vocal operating instructions to individual ones  
16 of said callers;

17 record memory means selectively connected to said  
18 interface structure for initiating a file and storing data  
19 relating to certain select ones of said individual callers;

20 designation structure means selectively coupled to  
21 said interface structure and said record memory means for  
22 assigning individual designations to callers and storing said  
23 designations in said record structure;

24 analysis structure connected to said record memory  
25 means for processing said data relating to certain select ones  
26 of said individual callers to isolate a subset of said  
27 callers; and

28 qualification structure for qualifying the  
29 operation of said analysis structure under control of said

30 signals representative of data developed by said terminal  
31 apparatus. ~~4~~

1 ~~439.~~ An analysis control system for use with a  
2 communication facility including remote terminal apparatus for  
3 individual callers, wherein said remote terminal apparatus may  
4 comprise a conventional telephone instrument including voice  
5 communication means and digital input means in the form of an  
6 array of alphabetic numeric buttons for providing data, said  
7 analysis control system further for use with a manual terminal  
8 for selectively interfacing the individual callers, said  
9 analysis control system comprising:

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cont'd  
10 an interface structure selectively coupled to said  
11 communication facility to interface said terminal apparatus  
12 for voice and digital communication and including means to  
13 provide signals representative of data developed by said  
14 terminal apparatus;

15 voice generator structure selectively coupled  
16 through said interface structure for actuating said terminal  
17 apparatus as to provide vocal operating instructions to an  
18 individual caller;

19 record means selectively connected to said  
20 interface structure for initiating a file and storing digital  
21 data relating to said callers provided from said digital input  
22 means;

23 abort means, operative under predetermined

24 conditions for passing communication data from said record  
25 structure to said manual terminal and coupling said manual  
26 terminal to interface a caller directly. *lv*

1 ~~40~~. An analysis control system according to  
2 Claim 39 wherein said interface structure includes an  
3 automatic call distributor. *lv*

1 ~~41~~. A control system in accordance with claim 39  
2 wherein said record means includes memory means and a buffer  
3 assembly register for receiving data from a caller and said  
4 memory. *lv*

85  
cont'd  
1 Sub E3 ~~42~~. A controlled interface system for use with a  
2 telephonic communication facility including remote terminals  
3 for individual callers, wherein said remote terminals may  
4 comprise a conventional telephone instrument, and wherein said  
5 telephone communication facility may provide called terminal  
6 digital signals to a called station representative of the  
7 called station, said controlled interface system comprising:

8 function unit means for supplying information of  
9 various formats, at least one of said formats being associated  
10 with an audio broadcast;

11 interface means for interfacing said telephonic  
12 communication facility with said function unit means for voice  
13 and digital communication including means to receive terminal



1 formed digital signals and means to provide signals  
2 representative of vocal communication to individual callers,  
3 said interface means further including means for voice  
4 communication to cue callers for actuating said remote  
5 terminals to provide terminal-formed signals; and

6 coupling means for coupling a specific caller at a  
7 terminal through said interface means to said function unit  
8 means for selective communication in accordance with a  
9 specific one of said formats under control of said called  
10 terminal digital signals. ~~42~~

B5  
Cont'd  
1 <sup>12</sup>  
2 ~~43~~. A controlled interface system in accordance  
3 with claim <sup>11</sup>~~42~~ wherein said coupling means is controlled by  
4 said terminal-formed signals. ~~44~~

1 <sup>13</sup>  
2 ~~44~~. A controlled interface system in accordance  
3 with claim <sup>11</sup>~~42~~ wherein said interface means further includes  
4 means for voice communication to cue callers for actuating  
5 said remote terminals to provide terminal-formed signals and  
6 including memory means for storing representations of said  
7 terminal-formed signals in the form of billing identification  
8 data. ~~45~~

1 <sup>14</sup>  
2 ~~45~~. A controlled interface system in accordance  
3 with claim <sup>13</sup>~~44~~ and further including qualification means for  
4 qualifying callers and wherein said coupling means is further

4 controlled by said qualification means. *lv*

Sub E4  
1 46. A communication process for use with a  
2 telephone communication facility including remote terminal  
3 apparatus for use by individual callers, wherein said remote  
4 terminal apparatus may comprise a conventional telephone  
5 instrument, and wherein said telephone communication facility  
6 provides called terminal digital signals to a called station  
7 representative of the called station, said communication  
8 process comprising:

9 providing information signals of various formats  
10 representative of vocal information in accordance with various  
11 formats;

B5  
cont'd  
12 interfacing said communication facility to said  
13 remote terminal apparatus to receive terminal formed digital  
14 signals and selectively provide said information signals for  
15 providing vocal communication to individual callers; and

16 controlling the interfacing to said communication  
17 facility to provide said information signals to said remote  
18 terminal apparatus selectively with respect to said various  
19 formats in accordance with said called terminal signals  
20 whereby a caller selectively receives information in  
21 accordance with a predetermined format. *lv*

Sub FI  
1 47. A statistical analysis system for use with a  
2 communication facility including remote terminal apparatus for

3 individual callers, wherein said remote terminal apparatus may  
4 comprise a conventional telephone instrument including voice  
5 communication means, and digital input means in the form of an  
6 array of alphabetic numeric buttons for providing  
7 identification and statistical data, said statistical analysis  
8 system comprising:

9 interface means selectively coupled to said  
10 communication facility to interface said terminal apparatus  
11 for voice and digital communication and including means to  
12 provide signal values from data developed by said terminal  
13 apparatus;

14 voice generator means selectively coupled through  
15 said interface means to said terminal apparatus for providing  
16 vocal operating instructions to an individual caller; and

17 processing means including a random number  
18 generator means for providing processing data, said processing  
19 means for isolating a subset of said individual callers based  
20 on said processing data.

1 ~~47~~<sup>48</sup>. An analysis system according to claim 47  
2 wherein said processing means includes a comparator means for  
3 comparing processing data from said random number generator  
4 means with data associated with a caller.

1 ~~49~~<sup>17</sup>. An analysis system according to claim ~~47~~<sup>15</sup>  
2 wherein said processing means processes said processing data

3 in combination with said identification and statistical  
4 data. ~~44~~

1 <sup>18</sup>  
~~450~~. An analysis system according to claim <sup>15</sup>~~47~~  
2 further including means for receiving signal values from data  
3 developed by said terminal apparatus for qualifying the  
4 operation of said processing means. ~~46~~

1 <sup>19</sup>  
~~451~~. An analysis system according to claim <sup>18</sup>~~50~~  
2 wherein said values from data developed by said terminal  
3 apparatus represents the designation of an interfaced terminal  
4 apparatus. ~~45~~

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cont'd  
1 ~~452~~. An analysis control system for use with a  
2 communication facility including remote terminal apparatus for  
3 individual callers, wherein said remote terminal apparatus may  
4 comprise a conventional telephone instrument including voice  
5 communication means and digital input means in the form of an  
6 array of alphabetic numeric buttons for providing data, said  
7 analysis control system further for use with a manual terminal  
8 for selectively interfacing the individual callers, said  
9 analysis control system comprising:

10 an interface structure selectively coupled to said  
11 communication facility to interface said terminal apparatus  
12 for voice and digital communication and including means to  
13 provide signals representative of data developed by said

14 terminal apparatus;

15 voice generator structure selectively coupled  
16 through said interface structure for actuating said terminal  
17 apparatus as to provide vocal operating instructions to an  
18 individual caller;

19 record means selectively connected to said  
20 interface structure for initiating a file and storing digital  
21 data relating to said callers;

22 abort means, operative under predetermined  
23 conditions for passing communication data from said record  
24 structure to said manual terminal and coupling said manual  
25 terminal to interface a caller directly.

REMARKS

Claims 29-52 are numbered consecutively from the original application as filed in the parent case U.S. Serial No. 07/640,337. Claims 29-30, 32-33, 35-39, 41-51 in the instant application correspond to Claims 38-39, 40-42, 44-48, 53-54, 58-62, 64-67 transferred from the parent case. In the Office Action dated June 4, 1991 in the parent case, the Examiner rejected Claims 38-48, 53, 54, 58, 59 and 61-67 for being inaccurate and indefinite. Applicant has addressed each of the stated bases for the Examiner's 35 U.S.C. § 112 rejections in the parent application.

In particular, with respect to Claims 38, 46, 61 and 62 (present Claims 29, 38, 43 and 47), the claim language

has been amended from "actuating" said terminal apparatus to voice generator structure selectively coupled through said interface structure to the terminal apparatus for --providing-- vocal operating instructions to individual ones of said callers.

With respect to Claims 38, 46, 47 and 62 (present Claims 29, 38, 39 and 47), the claim language has been changed to define that the interface structure is --selectively-- coupled to the communication facility.

With respect to Claims 38, 46, 47 and 62 (present Claims 29, 38, 39 and 47), the claim language has been amended to define that the voice generator means is --selectively-- coupled through said interface structure. Likewise in Claims 38 and 46 (present Claims 29 and 38), the designation structure means is defined as --selectively-- coupled to said interface structure. With respect to Claim 47 (present Claim 39), the record means is defined as being --selectively-- connected to said interface structure.

Claims 53 and 58 (present Claims 42 and 44) have been amended to cue callers for actuating said remote --terminals--. Claim 59 (present Claim 45) has been amended to define qualification means for qualifying --callers--.

A sincere effort to provide proper antecedent basis and consistency with regard to all the terminology in the claims, in particular as indicated by the Examiner with respect to Claims 39, 46, 48, 53, 54, 58, 61, 62, 64 and 67

(present Claims 30, 38, 41, 42, 43, 44, 46, 47, 48 and 51) has been made. The Examiner is requested to notify the undersigned if correction of any informalities has been inadvertently omitted.

Claims 31, 34, 40 and 52 are new claims that define additional features of the invention. Applicant respectfully requests examination of Claims 29-52.

Respectfully submitted,



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